Onto Somethin’

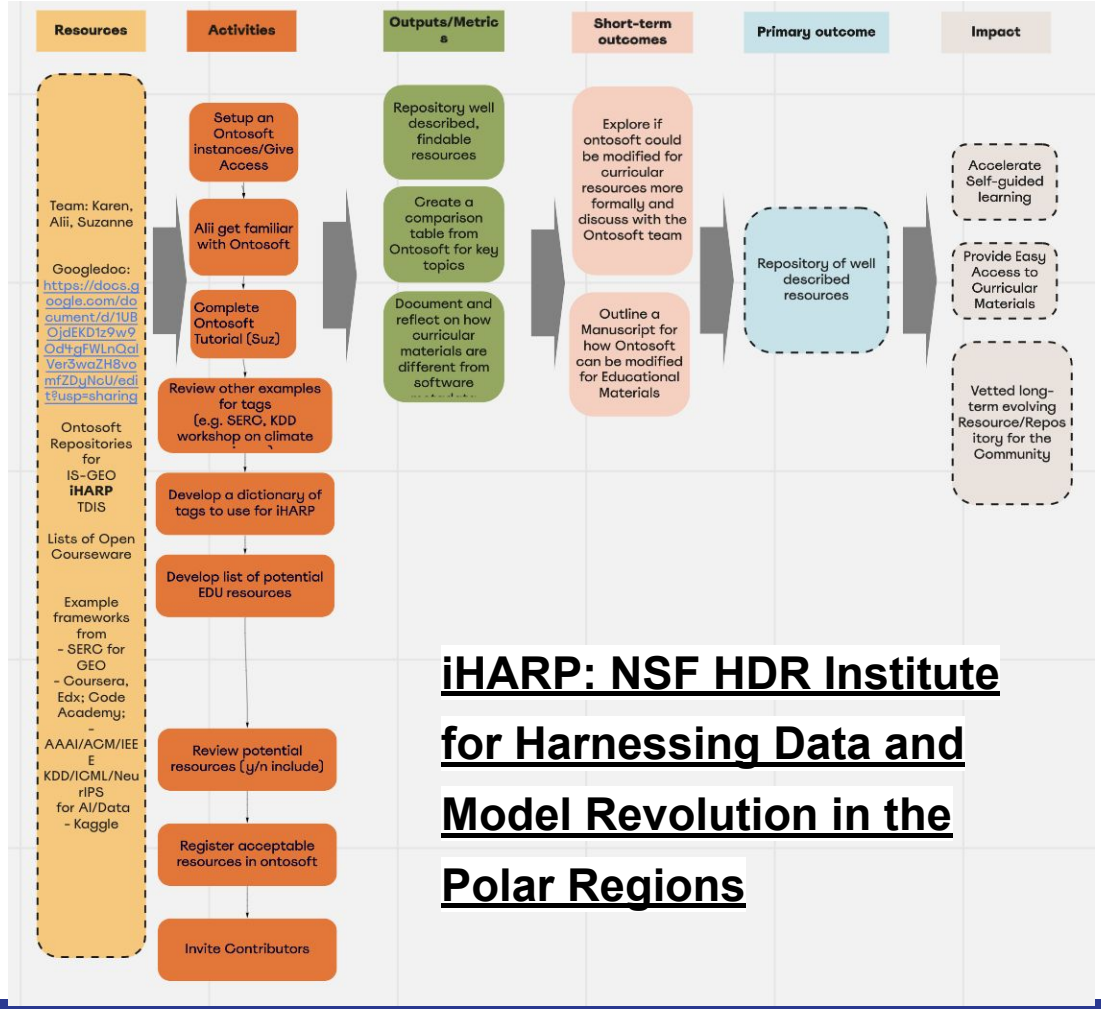
Team Members: Suzanne Pierce, Alii Napoleon, Karen Chen

Goals:

Identify and describe at least 25 relevant curricular resources to inform the iHARP community.

Resources should include domain topics in Data Sciences and Polar Sciences

A Resource list will be produced that describes pedagogical or curricular materials



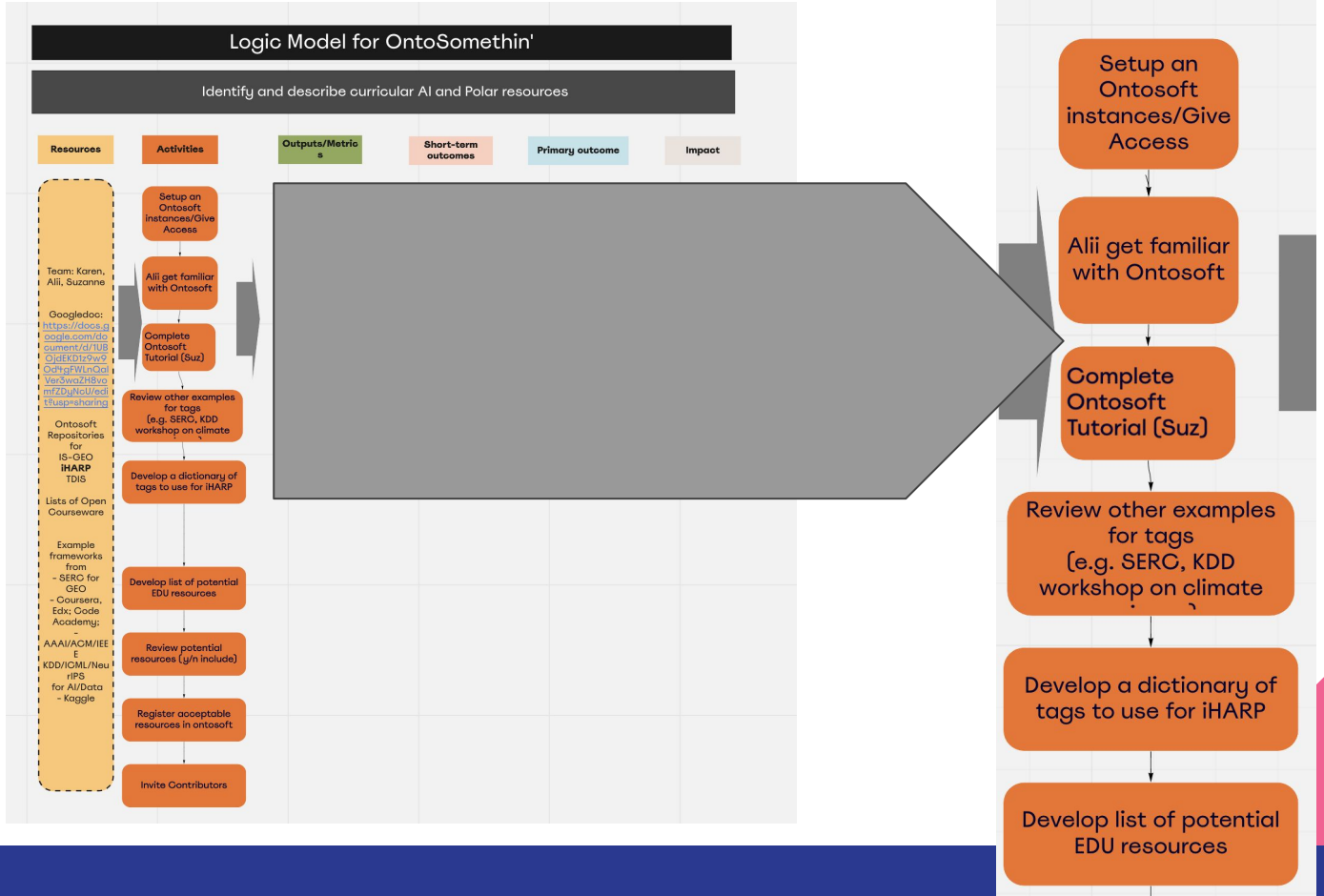
iHARP: NSF HDR Institute for Harnessing Data and Model Revolution in the Polar Regions

Tuesday, August 16 2022

Logic Model and Priority Activities

for developing the iHARP Knowledge Management Registry

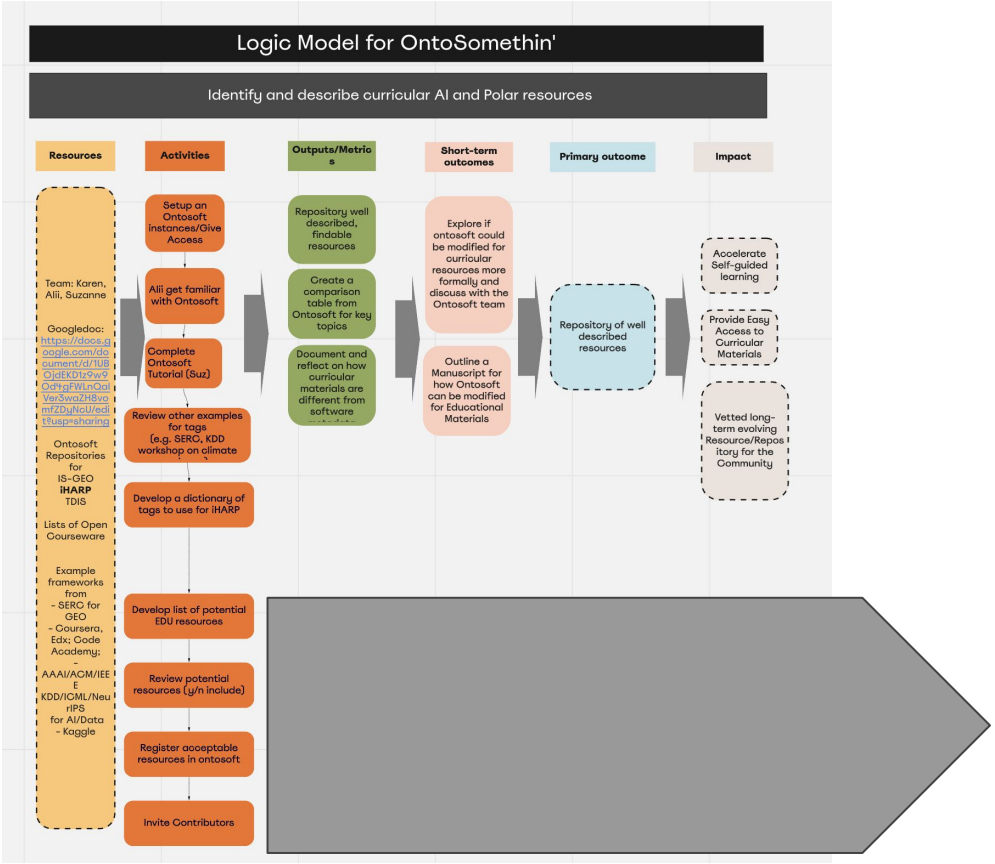
Completed Wednesday, August 17, 2022

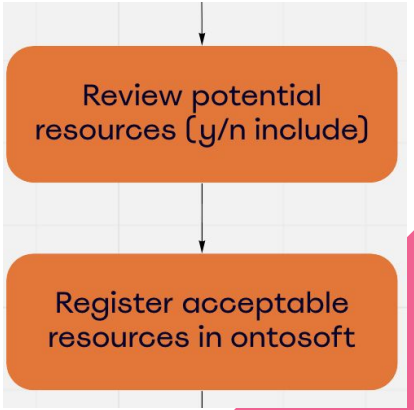


Issue:
Register for a User but can't edit
So all use admin acct
ACTION - send email to Developer (Suzanne)

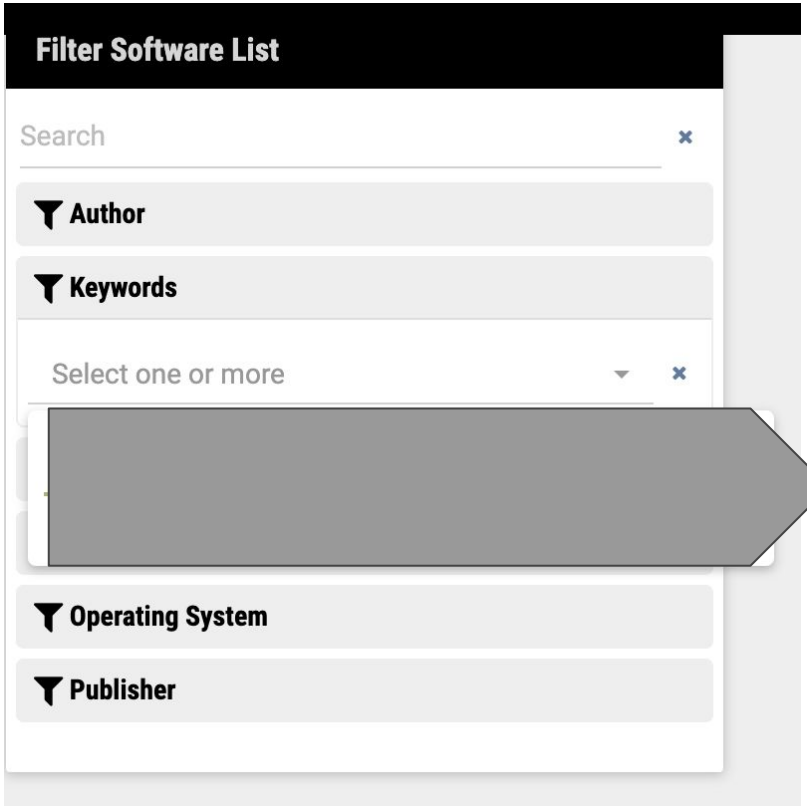
Inquiry completed and developer looking into this issue.

Completed Thursday, August 18, 2022





Setting up a Framework

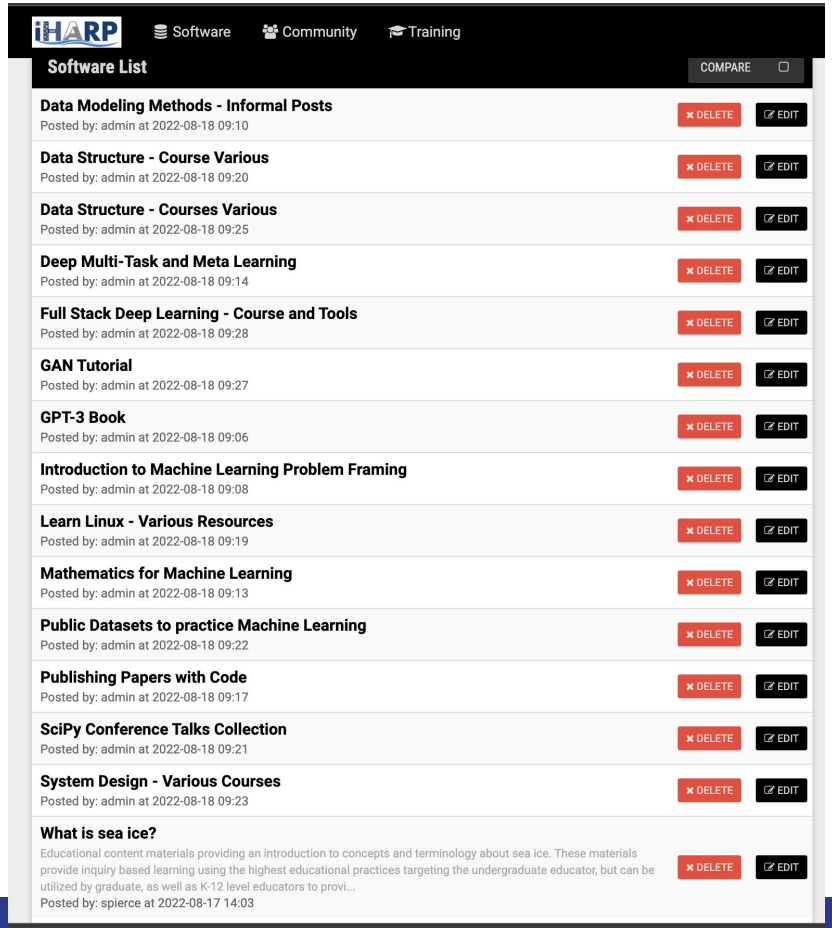


Goal is to prioritize spatio-temporal materials to support research and education from the perspective of both Polar and Data Science domains

Keywords or Labels:

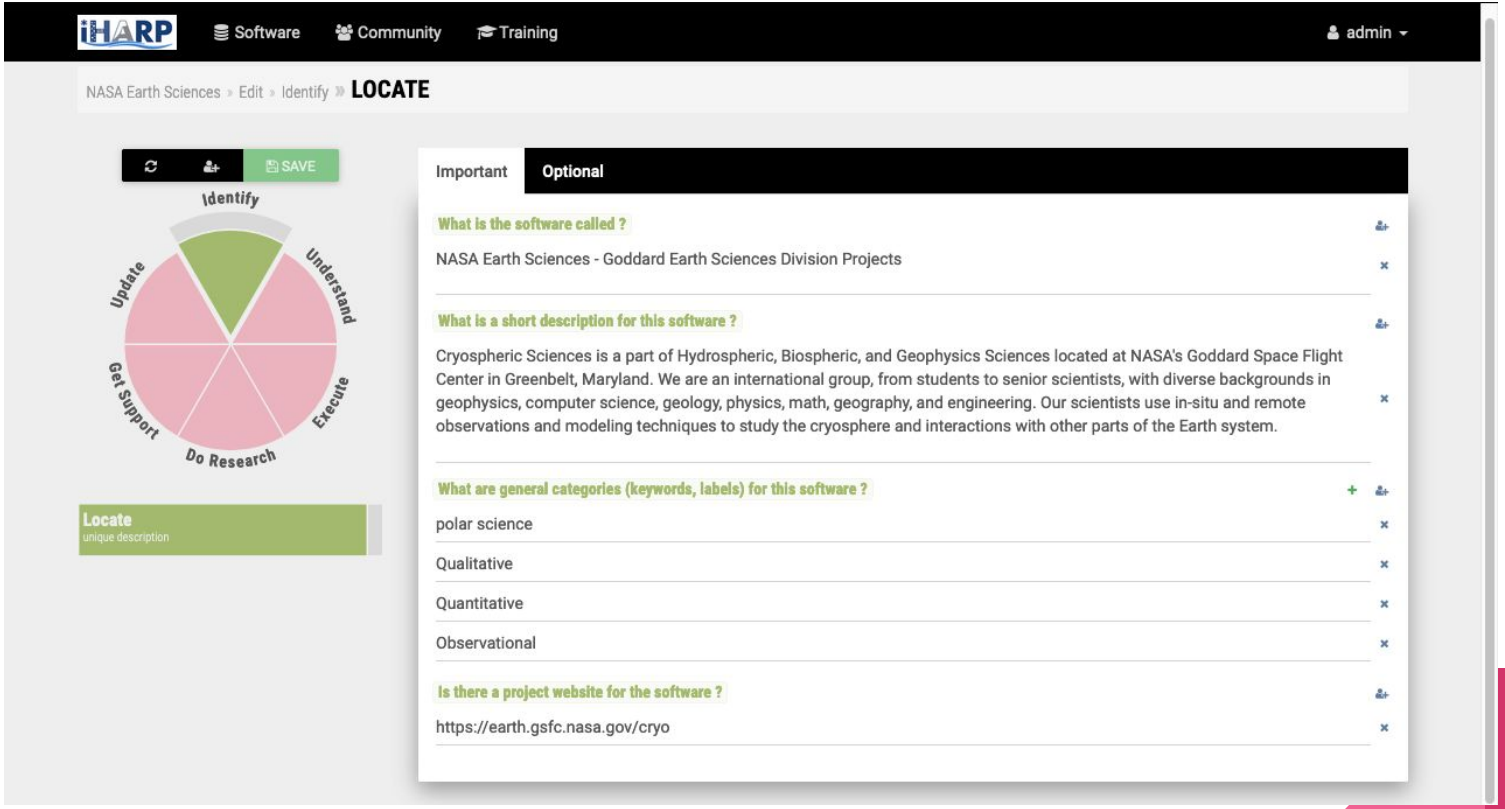
- category [tool, teaching material, tutorial]
  - (new category for consideration) research resource
- domain problem [polar science,ai/ml, data science]
- approach/method [examples, quantitative, qualitative]
- foundational Information []
- data [benchmark, observational]
- model [empirical, physics-based]
- Type resource;[dynamic; static]
  - CI Resources (needs discussion with iHARP researchers)
- expertise [novice; intermediate; advanced; expert]
- quality [peer reviewed, non-reviewed]
- tbd (use this keyword for resources we need to revisit)
- exclude (use this keyword and then add the reason/topic)

Collected Initial Resources to Test Framework

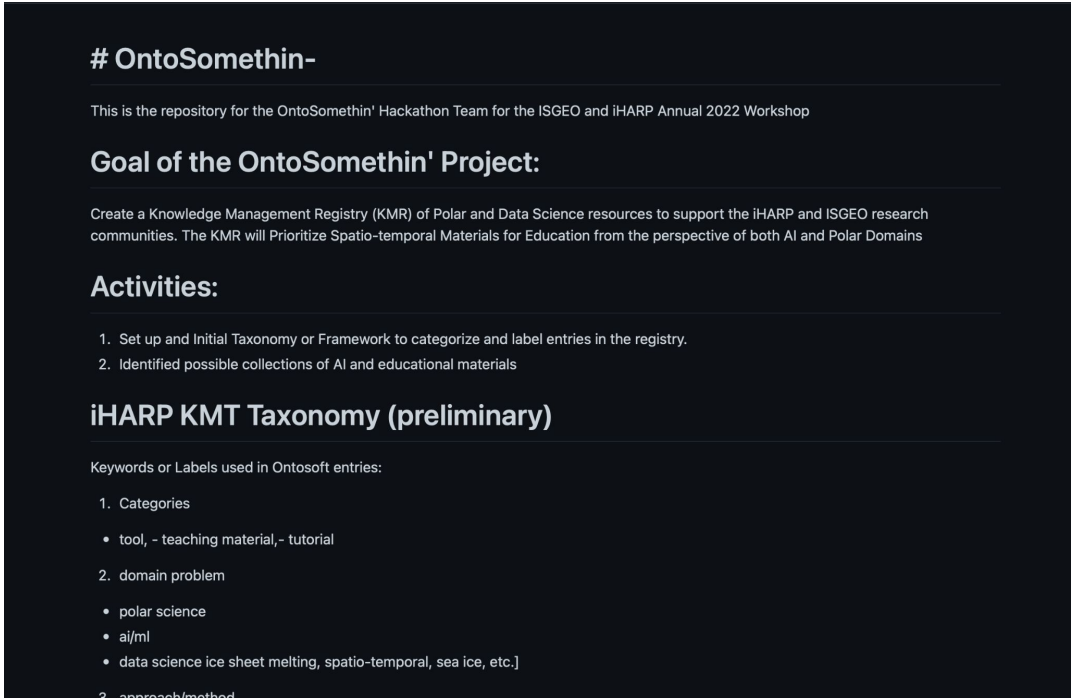


1) Identified possible collections of AI and educational materials
2) Began collecting potential resources and adding them to the iHARP instance of OntoSoft

Ontosoft Entry Example



OntoSomethin’ Github Repository Created



OntoSomethin-

This is the repository for the OntoSomethin' Hackathon Team for the ISGEO and iHARP Annual 2022 Workshop

Goal of the OntoSomethin' Project:

Create a Knowledge Management Registry (KMR) of Polar and Data Science resources to support the iHARP and ISGEO research communities. The KMR will Prioritize Spatio-temporal Materials for Education from the perspective of both AI and Polar Domains

Activities:

1. Set up and Initial Taxonomy or Framework to categorize and label entries in the registry.
2. Identified possible collections of AI and educational materials

iHARP KMT Taxonomy (preliminary)

Keywords or Labels used in Ontosoft entries:

1. Categories

- tool, - teaching material,- tutorial

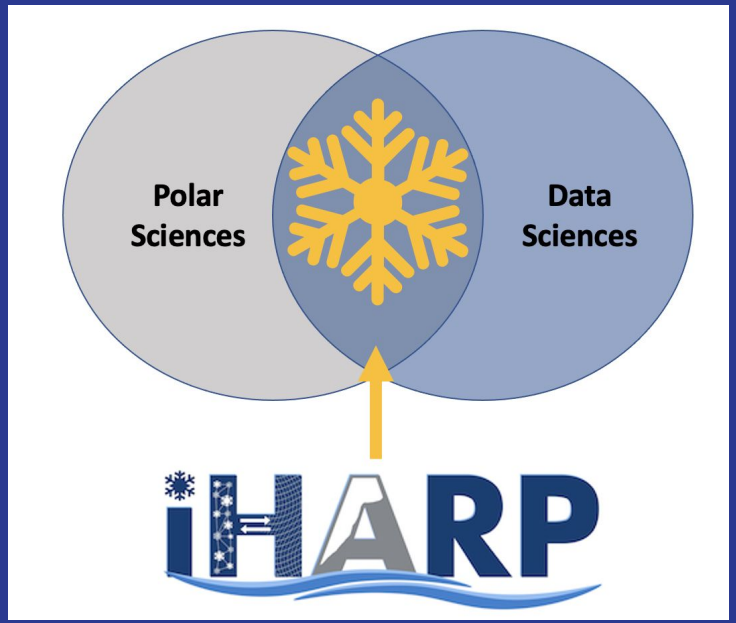
2. domain problem

- polar science
- ai/ml
- data science ice sheet melting, spatio-temporal, sea ice, etc.]

3. approach/method

We created a space to share our work on Github.

https://github.com/helpfultangent/OntoSomethin-

OntoSomethin': Create a Knowledge Management Registry for Polar and Data Science Research Communities

Team Members: Suzanne Pierce, Alii Napoleon, Karen Chen